



XDVD8181

INSTALLATION/OWNER'S MANUAL

DVD Multimedia Receiver with 7" Touch Screen Display



















Safety Note:

The DVD video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. In-dash DVD video functions will only operate when vehicle is in Park and the parking brake is engaged. It is illegal in most states for the driver to view video while the vehicle is in motion.

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DVD Region Management

Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the XDVD8181 plays discs according to their intentions, some functions may not work as intended. Please be sure to read the instructions provided with each disc. This player has been designed to play back DVD software that has been encoded for specific region areas. It cannot play back DVD software encoded for other region areas than the region areas for which it has been designed.

The XDVD8181 will play discs labeled "Region 1" or "All".

DVD region codes:

- 1 USA. Canada
- 2 Japan, Europe, South Africa, Middle East
- 3 Rep. of Korea, Taiwan, Hong Kong, Parts of Southeast Asia
- 4 Australia, New Zealand, Mexico, South America
- 5 Eastern Europe, Russia, India, Africa
- 6 China









▲ Safety Information

Please read all instructions carefully before attempting to install or operate.

Due to its technical nature, it is highly recommended that your DUAL XDVD8181 is installed by a professional installer or an authorized dealer. This product is only for use in vehicles with 12VDC negative ground only.

Safety Notes:

The DVD video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. In-dash DVD video functions will only operate when vehicle is in Park and the parking brake is engaged. It is illegal in most states for the driver to view video while the vehicle is in motion.

To prevent damage or injury:

- 1. Make sure to ground the unit securely to the vehicle chassis ground.
- 2. Do not remove the top or bottom covers of the unit.
- 3. Do not install the unit in a spot exposed to direct sunlight or excessive heat or the possibility of water splashing.
- 4. Do not subject the unit to excessive shock.
- 5. When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause the unit to malfunction.
- 6. To prevent short circuits when replacing a fuse, disconnect the wiring harness first.
- 7. Use only the provided hardware and wire harness.
- 8. You cannot view video while the vehicle is moving. Find a safe place to park and engage the parking brake.
- 9. If you experience problems during installation, consult your nearest DUAL dealer.
- 10. If the unit malfunctions, reset the unit as described on page 11 first. If the problem still persists, consult your nearest DUAL dealer or call tech assistance @ 1-866-382-5476.
- 11.To clean the monitor, wipe only with a dry silicone cloth or soft cloth. Do not use a stiff cloth, or volatile solvents such as paint thinner and alcohol. They can scratch the surface of the panel and/or remove the printing.
- 12. When the temperature of the unit falls (as in winter), the liquid crystal inside the screen will become darker than usual. Normal brightness will return after using the monitor for a while.

Additional notes:

- 1. When extending the ignition, battery or ground cables, make sure to use automotive-grade cables or other cables with an area of 0.75mm (AWG 18) or more to prevent voltage drops.
- 2. Do not touch the liquid crystal fluid if the LCD is damaged or broken. The liquid crystal fluid may be hazardous to your health or fatal. If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

This device complies with part 15 of the FCC rules and regulations.

Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.

Preparation

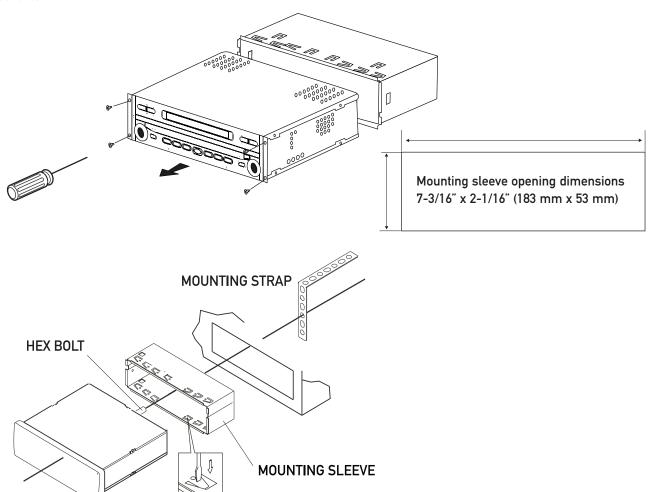
Please read entire manual before installation.

Before You Start

- Disconnect negative battery terminal. Consult a qualified technician for instructions.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight, or where it would be subject to dust, dirt or excessive vibration.

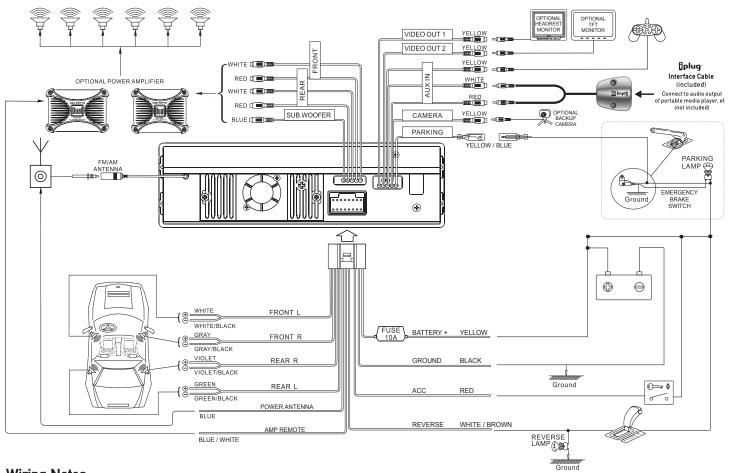
Getting Started

- Remove the four #1 phillips head screws from each corner, and slide the unit out of the mounting sleeve.
- Install mounting sleeve into opening, bending tabs to secure.
- Connect wiring harness and antenna as shown on pages 5-6. Consult a qualified technician if you are unsure.
- Certain vehicles may require an installation kit and/or wiring harness adapter (sold separately).
- Test for correct operation and slide unit into mounting sleeve, secure with #1 phillips screws as removed in step 1.
- Snap trim ring into place.
- Mount the iplug[™] adapter to any smooth clean surface using the supplied double-sided tape or #2 x 3/8" Phillips head screws.



TYPICAL FRONT-LOAD DIN MOUNTING METHOD

Expanded Wiring Diagram - Inputs/Outputs



Wiring Notes:

Subwoofer output

The SUBWOOFER audio output (Blue RCA) is active in all audio modes and must be connected to an external amplifier.

Rear view camera

A rear view camera (not included) can be used with **CAMERA** input.

NEED HELP??

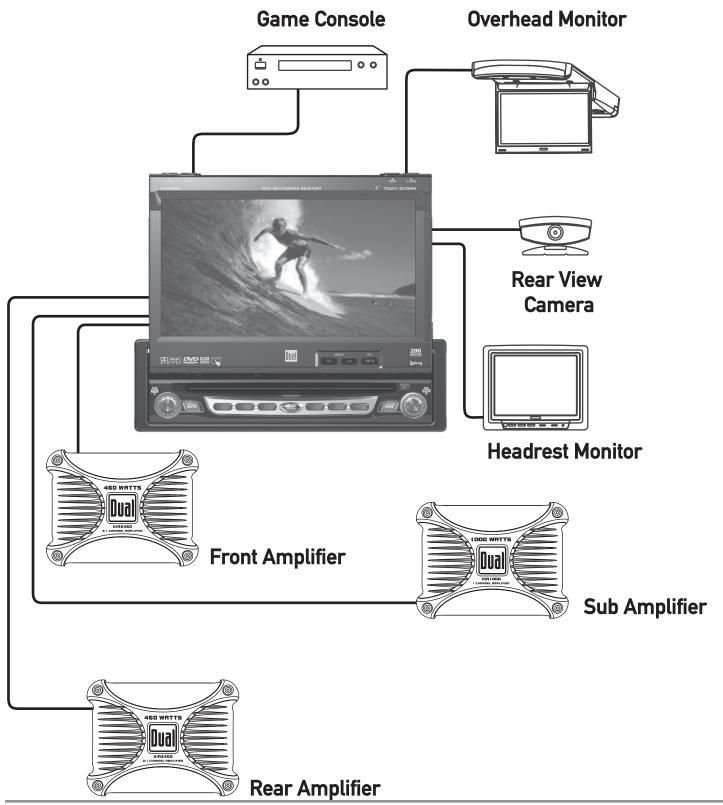
Call our Technical Service Hotline. 1-866-382-5476

Safety Note:

The DVD video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. In-dash DVD video functions will only operate when vehicle is in Park and the parking brake is engaged. It is illegal in most states for the driver to view video while the vehicle is in motion. Altering or defeating this safety feature is a violation of law and is prohibited.



Wiring Diagram - Optional A/V Connections



IR Remote Preparation

To first use the IR Remote control. you must first pull the battery insulation tape out

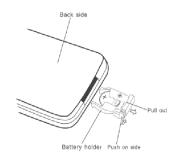


NOTE:

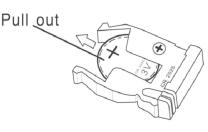
- Remove the battery if the IR Remote will not be used for a month or longer
- Remove and dispose of battery properly

Insert / Replacing the Battery:

Remove the battery holder





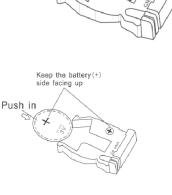


Install the new battery Make sure to keep the (+) side up



Battery holder

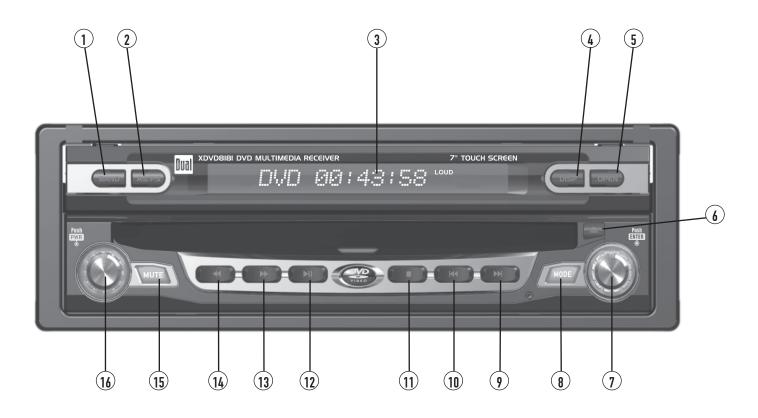
Insert the battery holder





CAUTION!!! Do not store battery with metallic objects or materials

Control Locations - Monitor Closed



- 1 Band
- (2) Auto Store/Preset Scan
- (3) Secondary LCD
- (4) Display
- 5 Open/Close Monitor
- (6) Eject
- 7 Rotary Encoder / Enter
- (8) Mode

- (9) Chapter/Track Up
- (10) Chapter/Track Down
- (11) Stop
- (12) Play/Pause
- (13) Fast Forward
- (14) Fast Reverse
- (15) Mute
- (16) Power/Volume

Monitor Notes:

- This model incorporates a motorized moving monitor. Before final installation, make sure the monitor will not obstruct the dash, shifter or any other controls.
- Upon installation, do not attempt to move the monitor up/down by hand. Use the ANGLE ▲/▼ and OPEN buttons on the front panel only.
- The unit will stop if it encounters any obstacles during the open/close sequence. If this occurs, remove the obstacle and press **OPEN** again to resume the monitor open/close sequence.



Control Functions - Monitor Closed

BAND | Press **BAND** to increment from FM1, FM2, FM3, AM1 ⇒ FM1.

AS/PS Press AS/PS for 1 sec to start station PRESET SCAN function,

(Auto Store /Preset Scan) Press AS/PS for 2 secs to start AUTO STORE station preset function in

current BAND.

SECONDARY LCD Additional **LCD** for system information while monitor is closed.

DISP | Press the DISP button to display CLOCK information on the secondary LCD

screen when the monitor is closed.

OPEN Press **OPEN** to open or close the monitor. The unit will emit 1 confirmation

beep upon opening, 3 beeps when closing. Be careful not to not touch or obstruct the monitor movement during the open/close sequence, or

permanent damage could occur.

EJECT Press once for **DISC** ejection.

ROTARY Press to access MAIN menu, rotate clockwise/counter clockwise to select

desired item and press once to ENTER.

MODE Press once to incrementally select desired source.

TRACK UP Selects the next chapter/track for playback.

TRACK DOWN Selects the previous chapter/track for playback.

STOP | Stop playback of DVD / CD / MP3 / .

PLAY/PAUSE | Press once for PAUSE, press again for PLAY.

FAST FORWARD Fast forward the disc content.

FAST REVERSE | Fast reverse the disc content.

MUTE | Press once to MUTE audio, press again to return audio, an icon indicator will

flash on the TFT monitor.

POWER ON/OFF Press Volume knob for 1sec to turn the unit on, the unit will beep 2 times.

Press and hold **POWER** for more than 2secs, unit will beep 3 time, then turn

off. NOTE: EJECT will still function even if POWER is off.

VOLUME Rotate clockwise/counter clockwise for desired **VOLUME** level, press once to

access the AUDIO SETUP MENU.

Control Locations - Monitor Open



- 1) Disc-in indicator Red = Disc inserted, Blue = No disc.
- 2 ANGLE ▼ Press to decrease the monitor view angle.
- (3) ANGLE ▲ Press to increase the monitor view angle.
- (4) INFO Press to select system **INFO** and press and hold for **BRIGHTNESS**.
- 5 Press to **RESET** system.

Safety Notes:

The DVD video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. In-dash DVD video functions will only operate when vehicle is in Park and the parking brake is engaged. It is illegal in most states for the driver to view video while the vehicle is in motion.

Control Functions - Monitor Open

Disc-in indicator

Blue = No disc

Red = Disc inserted

Monitor Angle ▲▼

Press **ANGLE** ▲ to increase the monitor view angle.

Press **ANGLE** ▼ to decrease the monitor view angle.

Notes:

- Do not attempt to move the monitor up/down by hand severe damage will occur. Use the front panel buttons or the remote control only.
- The color of the LCD monitor varies between viewing angles. Select the angle with the most optimum view for your location.
- The last position of the monitor will be saved in memory. The monitor will return to its last position automatically the next time it is opened.

INFO/PIC

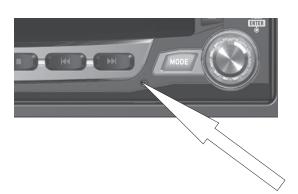
Press INFO button for 1 sec to display DVD disc information.

Press and hold **INFO** for 2 secs to change TFT LCD **BRIGHTNESS**:

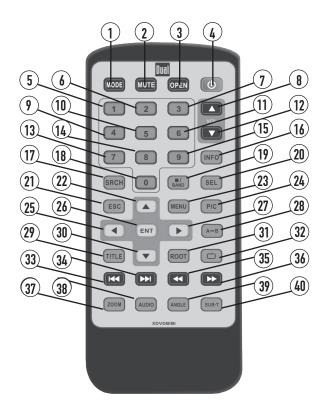
Press **ANGLE** ▲ to increase, **ANGLE** ▼ to decrease or use **VOLUME** rotary to adjust the level up or down, (0 minimum / 20 maximum), 10 is default.

SYSTEM RESET

If you experience abnormal operation or, your unit is inoperable, press the **RESET** button for 3 seconds, located on the front bottom-right corner of the unit. After a system reset, the unit restores all factory default settings. **Notes:** Use the tip of a pen to access the button.



Control Locations - Remote



- 1 Mode
- 2 Mute
- 3 Open/Close
- (4) Power
- **5** Key #1
- (6) Key #2
- **7** Key #3
- (8) Volume Up
- 9 Key #4
- (10) Key #5
- (11) Key #6
- (12) Volume Down
- (13) Key #7
- (14) Key #8
- (15) Key #9

- (16) Info
- (17) Search
- (18) Key #0
- (19) Band / Stop
- 20 Audio Select
- (21) Escape
- (22) 4-Way Up
- (23) Menu
- 24) Picture
- (25) 4-Way Left
- (26) Enter
- (27) 4-Way Right
- (28) Repeat A-B
- (29) Title Menu
- (30) 4-Way Down

- (31) Root
- (32) Repeat
- (33) Chapter/Track Down
- (34) Chapter/Track Up
- (35) Fast Rewind
- (36) Fast Forward
- (37) Zoom
- (38) Audio
- (39) Angle
- (40) Sub-Title

^{*} The remote control uses one 3 volt Lithium CR2025 battery. For best performance, replace only with CR2025 or equivalent.



Control Functions - Remote

Mode | Press once to incrementally select desired source

Mute | Press once to MUTE audio, press again to return audio

Open/Close | Press once to open monitor, press again to close the monitor

Power | Press once to turn the unit on, press again to turn unit off

Keys 0-9 Direct access chapter/track/preset station for current **BAND**

Volume Up Increase **VOLUME**

Volume Down | Decrease VOLUME

Info Displays systems information

Search | Search function in the DVD / CD disc

Band / Stop | Press to increment **BAND**, or **STOP** while in DVD / MP3 mode.

Audio Select | Enter **AUDIO** Setup mode

Escape | Exit current menu

4-Way -Up/Down/Left/Right | Navigating system and DVD menus

Menu | Enter the MAIN system menu

Picture | **BRIGHTNESS** parameter setting for TFT

Enter | Starts/pauses playback or confirm settings

Repeat A-B Repeat playback from time frame A to time frame B

Title Menu | Enter the title menu on DVD

Root | Enters the main menu of the DVD disc

Repeat | Repeat playback of current DVD chapter

Chapter/Track Down | Selects the previous chapter/track for playback

Chapter/Track Up | Selects the next chapter/track for playback

Fast Rewind | Fast rewind the disc content

Fast Forward | Fast forward the disc content

Zoom | Zooming in/out on an image from DVD disc

Audio | Change the audio language for DVD disc playback

Angle | Plays back DVD disc in different angle for a scene

Sub-Title | Language selection for subtitle

Power On/Off

Press Volume knob for 1sec to turn the unit on, the unit will beep 2 times. Press and hold **POWER** for more than 2secs, unit will beep 1 time, then turn off. **NOTE: EJECT** will still function even if **POWER** is off.

Monitor Open/Close

Press **OPEN** to open or close the monitor. The unit will emit 1 confirmation beep when opening, 3 beeps when closing. Be careful not to not touch the monitor during the open/close sequence.

Notes:

- The unit will stop automatically during open/close if an obstacle is detected.
 If this occurs, remove the obstacle and press OPEN again to resume the monitor open/close sequence.
- Audio can be heard while the monitor is closed.

Monitor Angle Position

Press **ANGLE** ▲ to increase the monitor view angle.

Press **ANGLE** ▼ to decrease the monitor view angle.

The monitor angle can be adjusted to 16 different positions.

Notes:

- Do not attempt to move the monitor up/down by hand severe damage will occur. Use the front panel buttons or the remote control only.
- The color of the LCD monitor varies between viewing angles. Select the angle with the most optimum view for your location.
- The last position of the monitor can be saved in memory. The monitor will return to its last position automatically the next time it is opened.

Notes:

- The vehicle must be in park and the parking brake applied to view video on the in-dash monitor.
- As a safety feature, a blue "PARKING" screen will show on the display when the vehicle's parking brake is not engaged. DVD, AV1 audio can be heard while the vehicle is in motion.
- The video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. In-dash video functions will only operate when vehicle is in Park and the parking brake is engaged. It is illegal in most states for the driver to view video while the vehicle is in motion. Refer to local laws in your area.

See DVD operation for more details on how to initialize the PARKING BRAKE.

Mode

Press MODE to select between TUNER, DVD, AV1, CAMERA, inputs. Modes of operation are indicated in the OSD (On Screen Display) and secondary LCD.

Optional Mode Selection

With the monitor open, press the screen to display the OSD menu bar and press TUNER, DVD, AV1 or CAMERA in the MAIN menu page to select the desired source.

Volume

Adjust **VOLUME** using rotary encoder or the **VOL** ▲ ▼ buttons (00-40).

Mute

Press MUTE to silence the audio; MUTE will appear in the OSD. Press MUTE again to cancel.

Audio Adjustment from front panel

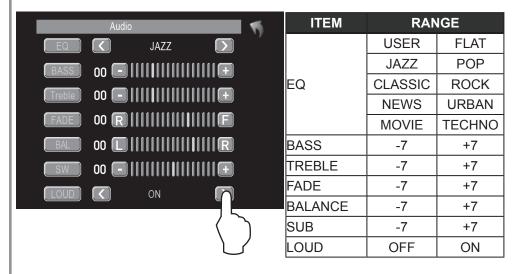
Press in VOLUME rotary knob on left front panel,

Press in **VOLUME** again to advance to desired parameter to be changed,

Turn **VOLUME** rotary \circlearrowleft or \circlearrowright to adjust to desired level,

Press in VOLUME to advance to next selection.

Press and hold the **VOLUME** button on the front panel to exit.



Audio Adjustment from Remote

Press the **SEL** button.

Press the \(\blacktriangle \) buttons on the remote to select an item to be adjusted,

Press ◀ or ▶ to adjust the desired setting,

Press the **ESC** button on the remote control to exit the audio control menu.

Note: The Bass and Treble levels are only adjustable when EQ is set to "User" mode. The Loud function compensates for deficiencies in sound ranges at low levels. When the Loud function is on, LOUD is displayed on the screen.

INFO/PIC

Press INFO button for 1 sec to display DVD disc information.

RGB BRIGHTNESS

Press and hold **INFO** for 2 secs to change TFT LCD **BRIGHTNESS**:

Press **ANGLE** ▲ to increase, **ANGLE** ▼ to decrease, or use **VOLUME** rotary to adjust the level up or down. (0 minimum / 20 maximum) 10 is default.

CVBS Screen Controls

While in Video playback, AUX-IN or CAMERA mode: Press and hold INFO for 2 secs to access PICTURE MENU, press INFO briefly again to step to next selection:

SHARPNESS CONTRAST COLOR BRIGHTNESS TINT

NOTE: Adjustments to SHARPNESS, CONTRAST, COLOR, BRIGHTNESS & TINT are only possible while in either video playback, AUX-IN or CAMERA CVBS mode.



Press ▼ or ▲ to adjust the sharpness (0 minimum / +20 maximum).

Press ▼ or ▲ to adjust the contrast (0 minimum / +20 maximum).

Press ▼ or ▲ to adjust the color (0 minimum / +20 maximum).

Press ▼ or ▲ to adjust the brightness (0 minimum / +20 maximum).

Press ▼ or ▲ to adjust the tint (0 minimum / +20 maximum).



BAND | Press **BAND** to increment from FM1, FM2, FM3, AM1 ⇒ FM1.

AS/PS

(Auto Store /Preset Scan)

Press AS/PS for 1 sec to start station PRESET SCAN function, the unit will now scan your program presets for 5 secs for each preset in that band, press again to stop scanning, the front LCD panel will flash while in this mode. Press AS/PS for 2 secs to start AUTO STORE station preset function in current BAND.

DISP Press the DISP button to display CLOCK information on the secondary LCD

screen when the monitor is closed.

OPEN Press **OPEN** to open or close the monitor. The unit will emit 1 confirmation

beep upon opening, 3 beeps when closing. Be careful not to not touch or obstruct the monitor movement during the open/close sequence, or

permanent damage could occur.

EJECT Press once for **DISC** ejection.

ROTARY Press to access MAIN menu, rotate clockwise/counter clockwise to select

desired item and press once to ENTER.

MODE | Press once to incrementally select desired source.

TRACK UP | Selects the next chapter/track for playback.

TRACK DOWN Selects the previous chapter/track for playback

STOP | Stop playback of DVD / CD / MP3

PLAY/PAUSE | Press once for **PAUSE**, press again for **PLAY**.

FAST FORWARD | Fast forward the disc content

FAST REVERSE | Fast reverse the disc content.

MUTE | Press once to MUTE audio, press again to return audio, an icon indicator will

flash on the **TFT** monitor.

POWER ON/OFF Press VOLUME knob for 1sec to turn the unit on, the unit will beep twice.

Press and hold **POWER** for more than 2secs, unit will beep three times, then

turn off. NOTE: EJECT will still function even if POWER is off.

VOLUME Rotate **VOLUME** rotary knob of or of for desired **VOLUME** level, press

once to access the AUDIO SETUP MENU.

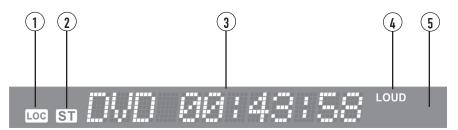
PROGRAMMABLE TURN-ON Turn VOLUME rotary to desired listening level, press and hold VOLUME

VOLUME | rotary knob for 3 seconds to program currently selected volume level.





Secondary LCD Information



NOTE: Sub-LCD only functions when **TFT** monitor is closed.

1) LOC LOCAL indicator, icon will be off when DISTANT (DX) is selected

2) ST | STEREO radio station indicator

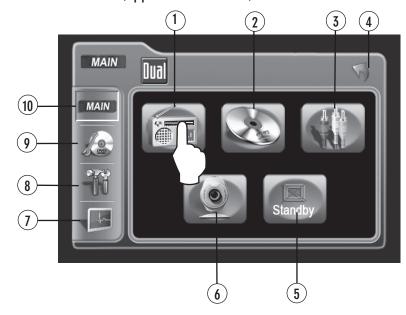
3) TIME Displays TRACK time, TUNING frequency, MP3 ID3 info, & CLOCK, etc.

4) LOUD | LOUDNESS selection indicator

Main Menu Access

There are three methods to access the MAIN menu

- Press the ENTER button on the right ROTARY knob
- Press the MENU button on the IR Remote control
- Touch the A area (upper left hand side) on the touch screen



Touch Access Buttons

1) Touch to access AM/FM TUNER mode

Touch to access CD/DVD mode, CD/DVD must be inserted

3) Touch to access AUXILIARY A/V INPUT mode

4) Touch to **RETURN** to previous screen

Touch to access CAMERA mode, if optional camera isn't connected then

"No Video Signal" will be displayed

Touch to STANDBY screen, touch screen again or any button to resume display.

NOTE: VOLUME level can be controlled without interrupting STANDBY

Touch to access SCREEN SETUP utility menu

8) Touch to access **GENERAL SETUP** utility menu

9) Touch to access CD/DVD SETUP menu, CD/DVD must be inserted to function

10) Touch to access MAIN Source menu

Rapid Dial

2)

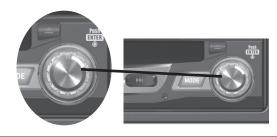
5)

6)

7)

RAPID DIAL can also control touch screen functions

- Select desired function rotating clockwise or counter-clockwise
- Function will be outlined in yellow
- Press inward to ENTER





System GENERAL Setup Menu

General Setup Menu



- Press the GENERAL button to access the setup mode
- Select desired parameter you wish to change
- Page will return back to previous screen after 10 secs of inactivity or by pressing the RETURN button

NOTE: Default anti-theft password is 0000

This is matrix of the GENERAL Setup Menu

Settings	Default	Options	Function
		USA	
		S-AMER1	
Radio	USA	S-AMER2	Set to appropriate setting for your Country
		Europe	
Clock adjust	АМ	00:00 See adjusting the clock for more details	
Clock Mode	12Hr	12Hr	PM 6:00
		24Hr	18:00
Camera Image	Normal	Normal	Normal Image
		Reverse	Mirror camera input image 180 degrees
		AUT0	System will auto detect NTSC or PAL
Video Format	Auto	NTSC	For NTSC compatibility
		PAL	For PAL compatibility
		On	TFT panel will automatically open when IGN is turned on
TFT Auto Open	Off	Off	TFT willl remain closed until the OPEN button is pressed
		Manual	Will only close when OPEN
Antitheft code	0000		Must enter password to turn antitheft on or off
Antitheft Active	Off	On	System will require a password if main battery power is removed for more than 5 minutes
		Off	No Password will be required if power is removed
Load Factory Defaults	Yes	Are you sure? Yes / Cancel	Load all factory parameters to their original settlings, NOTE: this will not change ANTI-THEFT password

NOTE: Not all GENERAL setup features are described in detail

System GENERAL Setup- Adjusting RADIO Frequency

Adjusting RADIO Frequency



Step 1

1) Touch top left corner of screen



Step 2

2) Touch GENERAL setup button



Step 3

3) Touch USA



Step 4

4) Touch the setting for your Country

Step 5

Touch RETURN to exit

System GENERAL Setup- Adjusting the Clock

12Hr Clock Mode



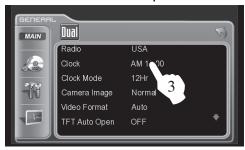
Step 1

1) Touch top left corner of screen



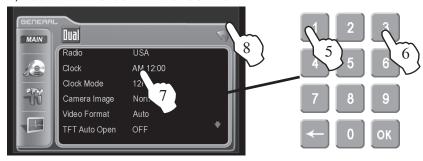
Step 2

2) Touch GENERAL setup button



Step 3

3) Touch 00:00 area in the CLOCK row



Step 4, 5, 6, 7 & 8

- 4) Keypad should now appear
- 5) Enter the time in HOURS, touch Ok
- 6) Enter MINUTES, touch Ok
- 7) Touch AM or PM to set
- 8) Touch RETURN to exit

24Hr Clock Mode

If you desire 24Hr format, select 24Hr from CLOCK MODE, then follow steps 1-8

System GENERAL Setup- Setting the Anti-theft code

By default Anti-theft password is 0000 and is turned OFF, to turn this feature on, follow the steps below. **CAUTION!!**

This will lock your unit from operating if battery POWER is disconnected for more than 5 minutes





1) Touch top left corner of screen



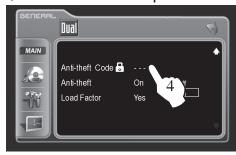
2) Touch GENERAL Setup button



Step 3 & 4



3) Touch down arrow button



4) Touch ----



5) Enter 0000



6) Touch OFF

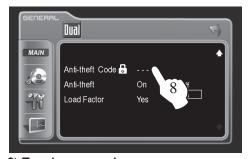
NOTE: it is recommended that you choose your own 4-digit password carefully, write it down somewhere and keep in a safe location. In the event you should ever loose or forget your password, call our tech hot line for support on how to unlock your system

Step 7 & 8

Step 5 & 6



7) Touch ON



8) Touch ---- again

Record your password here



Step 9 & 10

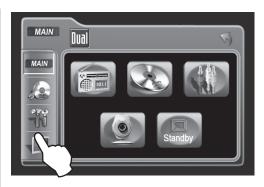


9) Enter your new 4-digit password

10) Touch RETURN to exit

System SCREEN Setup Menu

Screen Setup Menu

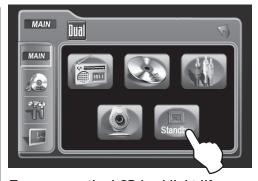


- Press the SCREEN Setup button to access the SCREEN SETUP mode
- Select desired parameter you wish to change
- Page will return back to previous screen after 10 secs of inactivity or by pressing the RETURN button

Adjusting a Feature

Settings	Default	Options	Function
Brightness	10	0 to +20	Press the < / > buttons on the remote or rotate the ENTER button clockwise / count-clockwise to adjust the BRIGHTNESS to the desired setting
Screen Tilt	4	1 - 6	Select 1 to 6 to adjust the default tilt angle of the screen
Screen Saver	On	On	Select On to activate the screen saver, Off to deactivate
		Off	
Touch Screen	No	No	Touch "Yes" to enter the Touch Screen calibration mode
Calibration		Yes	
Version			Software version of unit

System Standby



To conserve the LCD backlight lifespan or to stop annoying glare while night driving, press STANDBY, the TFT screen only will black out, however all other operations are still possible, press any button except **VOLUME** or touch screen again to return normal viewing

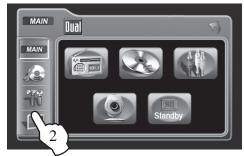
System SCREEN Setup Menu- Setting TFT Brightness

This will set the default setting for the TFT display brightness, this setting can also be set by pressing the INFO button on the front TFT panel



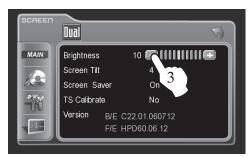


1) Touch top left corner of screen



Step 2





Step 3

3) Touch [-] to DIM TFT



Step 4

4) Touch [+] to BRIGHTEN TFT

0 to + 20 is possible Default = 10

Step 5

5) Touch RETURN to exit

System SCREEN Setup- Setting TFT Angle

Set for best viewing angle in your vehicle

Step 1



1) Touch top left corner of screen



Step 2

2) Touch SCREEN setup button



Step 3

3) Touch a number displayed in SCREEN TILT row



Step 4

4) Touch desired angle for best viewing angle

1 -6 is possible Default = 4

Step 5

5) Touch RETURN to exit

System SCREEN Setup - Touch Screen Calibration

On occasion the touch screen will have to be calibrated, follow these few steps as described

Step 1

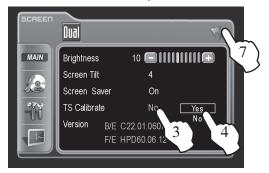


1) Touch top left corner of screen



Step 2

2) Touch SCREEN setup button



Step 3 & 4

- 3) Touch NO in TS Calibration row
- 4) Then press YES



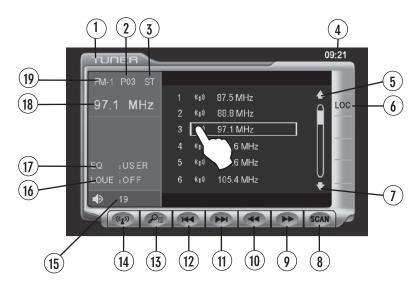
Note: For proper calibration you must touch each pointer for 2 seconds. If pointers are not touched properly, the calibration sequence will start over until the calibration is done correctly.

Step 5 & 6

- 5) Touch and hold the pointers as indicated on the screen for 2 seconds each.
- 6) Screen will automatically return to MAIN MENU, touch EXIT to return.

AM/FM Tuner Operation

AM/FM Tuner TFT Display



- 1) Current source MODE information, touch "A" area to return to MAIN source selection menu
- 2) Current PRESET station indicator
- 3) STEREO broadcast indicator
- 4) Clock
- 5) | PRESET page up
- 6) LOCAL / DISTANCE selection
- 7) PRESET page down
- 8) Auto station **SCAN** button
- 9) MANUAL TUNE up
- 10) MANUAL TUNE down
- 11) SEEK TUNE up
- 12) | SEEK TUNE down
- 13) AS/PS (AUTO STORE / PRESET SCAN)
- 14) BAND selection. FM1. FM2. FM3. AM -> FM1
- 15) **VOLUME** indicator
- 16) LOUD indicator
- 17) Equalizer indicator, touch to access AUDIO Setup menu
- 18) Current radio frequency indicator
- 19) Current radio BAND indicator

AM/FM Tuner Operation

Auto Seek Tuning

Press the button to auto **SEEK** up the next strongest station.

Press the button to auto **SEEK** down the next strongest station.

Manual Tuning

Press the button to manually tune up one step at a time.

Press the button to manually tune down one step at a time.

Auto Store (AS)

Press and hold **AS/PS** for more than 2 seconds to automatically store the twelve strongest stations in the current band. Automatic Local tuning is activated during the initial band scan, repeat for other bands.

NOTE: All presets within the current band will be overwritten.

Program Scan (PS)

Press **AS/PS** for less than 2 seconds to scan presets 1-12 on the current band, pausing for 5 seconds at each. Press **AS/PS** again to cancel.

SCAN

Press **SCAN** to preview strong stations on the current band, pausing for 5 seconds at each station. Press **SCAN** again to cancel.

LOC/DX Radio Station

Touch LOC button on the TFT to activate LOC / DX When the LOCAL function is on, LOC will appear, only radio stations with a strong signal are received, DX is for radio stations that are far away and/or have weak signals.

Storing Radio Stations
PRESET

Up to 36 FM stations and 12 AM stations can be stored. To store a station, select the desired band and station. Press and hold the desired preset button (1-12) for more than 2 seconds. When stored, the **PRESET** number will appear in the display. The station can be recalled anytime by pressing the corresponding preset button on the TFT.

Recalling a Radio Station PRESET

Touch an corresponding PRESET number for less than 2 secs to recall.

PRESET Page Up/Down

Only 6 PRESETS can be display at one time, use PRESET page up/down to access next stored PRESETS accordingly.





DVD Operation

DVD Region Management

Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the XDVD8181 plays discs according to their intentions, some functions may not work as intended. Please be sure to read the instructions provided with each disc. This player has been designed to play back DVD software that has been encoded for specific region areas. It cannot play back DVD software encoded for other region areas than the region areas for which it has been designed.

The XDVD8181 will play discs labeled "Region 1" or "All".

DVD region codes:

- 1 USA, Canada
- 2 Japan, Europe, South Africa, Middle East
- 3 Rep. of Korea, Taiwan, Hong Kong, Parts of Southeast Asia
- 4 Australia, New Zealand, Mexico, South America
- 5 Eastern Europe, Russia, India, Africa
- 6 China





DVD Disc Symbols

Symbol	12cm Disc Properties	Max Play Time
VIDEO VIDEO	Single side single layer (DVD-5) Single side double layer (DVD-9) Double side single layer (DVD-10) Double side double layer (DVD-18)	(MPEG 2 Method) 133 minutes 242 minutes 266 minutes 484 minutes
DIGITAL VIDEO	Single side single layer (VCD)	(MPEG 1 Method) 74 minutes
DIGITAL AUDID TEXT	Single side single layer	74 minutes

Symbol	Meaning
(3)	Number of voice languages recorded. The number inside the icon indicates the number languages on the disc (maximum of 8).
32	Number of subtitle languages available on the disc (maximum of 32).
9	Number of angles provided (maximum of 9).
16:9 LB	Aspect ratios available. "LB" stands for Letter Box and "PS" stands for Pan/Scan. In the example on the left, the 16:9 video can be converted to Letter Box video.
	Indicates the region code where the disc can be played. Region 1: USA, Canada, East Pacific Ocean Islands Region 2: Japan, Western Europe, Northern Europe, Egypt, South Africa, Middle East Region 3: Taiwan, Hong Kong, South Korea, Thailand, Indonesia, South-East Asia Region 4: Australia, New Zealand, Middle and South America, South Pacific Ocean Islands/ Oceania Region 5: Russia, Mongolia, India, Middle Asia, Eastern Europe, North Korea, North Africa, North-West Asia

Notes:

Some DVD discs can be played only in certain playback modes according to the intentions of the software.

As the XDVD8181 plays discs according to their intentions, some functions may not work as intended. Please be sure to read the instructions provided with each disc.

DVD Operation - Parking Brake Initialization



SAFFTY WARNING



CAUTION !!!
IT'S UNLAWFUL TO OPERATE
A VEHICLE WHILE VIDEO IS
DISPLAY IN THE DRIVERS
VIEWING AREA

ENGAGE EMERGENCY BRAKE
TO ENJOY VIDEO

- The video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. In-dash video functions will only operate when vehicle is in Park and the PARKING BRAKE is engaged. It is illegal in most states for the driver to view video while the vehicle is in motion. Refer to local laws in your area.
- Audio can be heard while the monitor is closed.
- The vehicle must be in park and the parking brake applied to view video on the in-dash monitor.
- As a safety feature, "ENGAGE PARKING BRAKE" blue screen will show on the display when the vehicle's parking brake is not engaged. Video display on the front monitor isn't allowed until the PARKING BRAKE is active. After connecting the yellow/blue PARKING BRAKE wire to brake switch circuit as described below, note however, DVD and AV1 audio can be heard while the vehicle is in motion without engaging the parking brake.

Front TFT Video Initialization

Follow this two initialization procedure carefully to allow video playback on XDVD8181 front panel TFT:

There are usually two situations that start the PARKING BRAKE Sequence.

Parking Brake Initialization Situation 1

First situation is while driving:

- 1) Stop vehicle, put in Park, make sure PARKING BRAKE is off / released
- 2) Depress PARKING BRAKE for 1 sec
- 3) Release PARKING BRAKE for 1 sec.
- 4) Depress PARKING BRAKE permanently

NOTE: Once above procedure 1-4 is completed, approx 3sec—video will display.

Parking Brake Initialization Situation 2

Second situation is while already parked and the PARKING BRAKE is already depressed:

- 1) Keep vehicle in Park, PARKING BRAKE should be off
- 2) Release PARKING BRAKE for 1 sec
- 3) Depress PARKING BRAKE for 1 sec
- 4) Release PARKING BRAKE for 1 sec
- 5) Depress PARKING BRAKE permanently

Note: The transition time must be less than 2 sec between depressed and release NOTE: Once 2nd procedure is completed, approx 5 sec—video will display.

NOTE: This procedure will have to repeated if the IGN is turned off.



DVD Operation - Inserting a Disc



DVD Loading Slot

Insert CD/DVD with label facing upwards

Inserting a DISC

When inserting a DVD disc, it will play automatically. Other sub-menus may have to be pressed to access the DVD movie / music content, read the directions of your specific DVD disc for hidden features.

NOTE: If PARENTAL Lock is activated and the disc inserted is not authorized, a 4-digit code must be entered and/or the disc be authorized.(see "RATING MENU")

NOTE: Only one disc can be inserted at a time.

Ejecting the DISC

Press the EJECT button

Resetting the Loading Mechanism

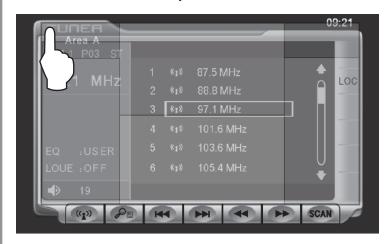
If the disc loads abnormally or an system error occurs, press and hold the eject button for 3secs to reset the loading mechanism. The disc will eject and normal operation should resume.

DVD Operation - Touch Screen

Hidden Touch Screen area while in TUNER mode

There are several hidden TOUCH SCREEN areas outlined below,

"A" area can be used in any mode to access MAIN menu



Hidden Touch Screen areas while in DVD mode

"A-F" areas can be used in DVD mode to access:

- A MAIN menu access
- B Displays DVD track information
- C Selects PREVIOUS chapter
- D Select NEXT chapter
- E Displays the full DVD transport controls
- F GOTO search menu



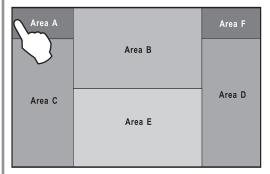


DVD Operation - Touch Screen Controls

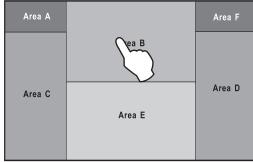
Using the hidden Touch Screen Controls

- A MAIN menu access
- B Displays **DVD** track information
- C Selects PREVIOUS chapter
- D Select **NEXT** chapter
- E Displays the full **DVD** transport controls
- F GOTO search menu

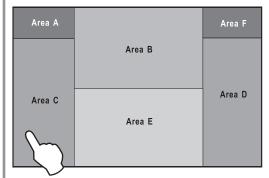
NOTE: A DVD disc must be inserted to access these functions and features.



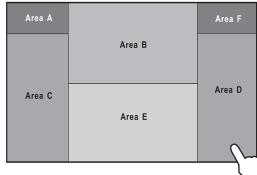
AREA A
Access MAIN Menu



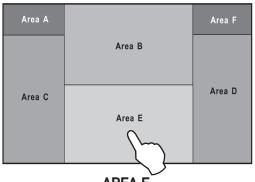
AREA B
Displays Track Information



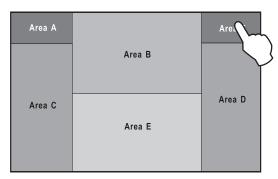
AREA C
Selects PREVIOUS Track



AREA D
Selects NEXT Track



Full DVD Transport Controls



AREA F DVD Search

DVD Operation - Touch Screen Controls

Using the hidden Touch Screen Controls





Touch AREA E

1) Touch the PLAY button or on the front panel to resume disk playback.

Touch the PAUSE button again to suspend the disc playback.

- 2) Touch the STOP button to STOP playback, touch or OK on the remote to resume playback.
- 3) Touch the REVERSE button to FAST REVERSE on DVD, 2x, 4x, 8x to 20x.
- 4) Touch the FF button to FAST FORWARD on DVD, 2x, 4x, 8x to 20x.
- Touch the Repeat to scroll through the following: DVD: Repeat Title, Repeat Chapter, Repeat OFF MP3: Repeat Single, Repeat Folder, Repeat OFF
- 6) Touch the AB to scroll through the following:
 - A) Use the A-B function to define a specific area of disc to repeat. Press the Repeat A-B button to set a start point of the (A) selection.
 - B) Press the A-B button again once you reach the desired end point (B) of the repeated section, the selected portion of the DVD will now repeat continuously.
 - C) Press A-B button once again to cancel the A-B selection and stop repeat playback
- 7) Touch the to change Audio language playback
- 8) Touch the to return to MAIN MENU of DVD
- 9) Touch the SUB.T to change Sub-title of DVD

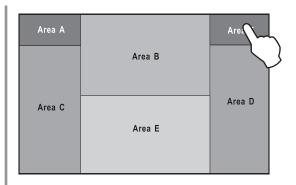
Notes:

Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the XDVD8181 plays discs according to their intentions, some functions may not work as intended. Please be sure to read the instructions provided with each disc.

DVD Operation - Searching a DVD

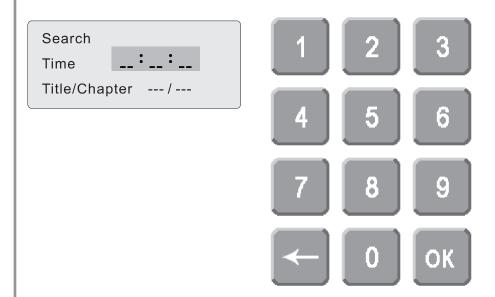
Searching a DVD

Searching by Time, Title, or Chapter



Touch the search button in AREA F.

- 1) Touch the IIME area.
- 2) A touch keypad will now appear, enter your desired TIME to search.
- 3) Enter OK.





DVD Operation

Direct Chapter / Track Selection

During DVD and CD playback, you can use the numeric keypad on the IR remote to access tracks directly

Viewing an Alternate picture Angle (DVD only)

Some DVD's contain scenes that have been shot simultaneously from different angles. For discs recorded with multiple angle, press the ANGLE button on the remote control to toggle between available angles on the screen.

Multi-Language Disc

If you are watching a disc recorded in multiple languages, press the AUDIO button on the IR remote to choose your desired language. You can also touch AREA E and use the button to change languages.

Changing Subtitle Language

If you are watching a disc recorded in multiple languages with subtitles, press the SUB-T button on the IR remote to choose your desired subtitle,

You can also touch AREA E and use the SUB.T button to change languages.

DVD Playback Information

During playback, press the INFO button on the IR remote or touch AREA B to display the playback information on screen.

The following information will be displayed:

	2		5	7
DVD VIDEO	T:4/16	00:01:35	USER	08:06
	C:1/20		ON	08.00
1	3	4	6	

Playback Information

Indicates current source playing. 1)

Indicates that the fourth of sixteen title on the DVD is currently playing. 2) Indicates that the first of twenty chapters on the DVD is currently playing. 3)

Indicates the playback time if the current title.

4) Indicates the USER defined EQ levels 5)

Indicates the LOUND setting is on. 6)

Indicates the current system time.



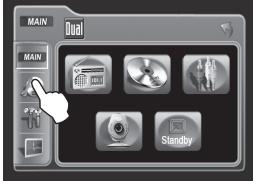
DVD Setup Menu - Language

LANGUAGE Setup Menu

NOTE: A DVD disc must be inserted to access these functions and features.

With the monitor open in DVD mode, press the AREA A (top left screen) to display the MAIN menu bar. Press **DVD Setup** to access the DVD setup menu.

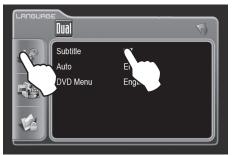




Press LANGUAGE icon to select LANGUAGE setup page.

Disc Subtitle

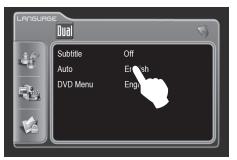
Press to select desired disc subtitle language.



ENGLISH FRENCH SPANISH AUTO OFF = DEFAULT

Subtitle Language

Press to select desired disc audio language.



ENGLISH = DEFAULT FRENCH SPANISH

DVD Menu

Press to select desired disc menu language.



ENGLISH = DEFAULT FRENCH SPANISH

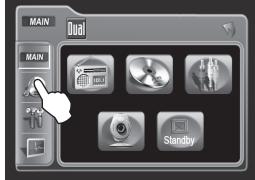
DVD Setup Menu - Video

Video Setup Menu

NOTE: A DVD disc must be inserted to access these functions and features.

With the monitor open in DVD mode, press the AREA A (top left screen) to display the MAIN menu bar. Press DVD Setup to access the DVD setup menu.





NORMAL - 4:3

WIDE - 16:9

Press VIDEO icon to select from the following menus:

TV Shape

Press to select desired TV Shape.



Angle Mark

Press to select desired Angle Mark.



Video Mode



ORIGINAL H FIT W FIT **FIT TO SCRN**

ON

OFF



DVD Setup Menu- Ratings

Ratings Setup Menu

NOTE: A DVD disc must be inserted to access these functions and features.

With the monitor open in DVD mode, press the AREA A (top left screen) to display the MAIN menu bar. Press **DVD Setup** to access the DVD setup menu.





Press RATING icon to select from the following menus:

Enable Parental Lock Password

Press ---- to enter a your desired password.



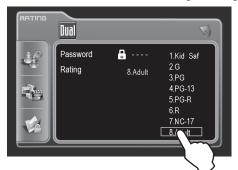


Setting Parental Lock Password

- 1. Enter a 4-digit code
- 2. Write the code down
- 3. Save in a safe place

Rating Setting

Press to select desired Rating Setting.



- 1. Kid Safe
- 2. G
- 3. PG
- 4. PG-13
- 5. PG-R
- 6. R
- 7. NC-17
- 8. Adult

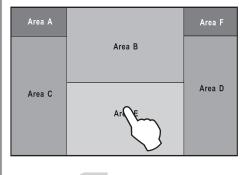
Parental Password Override

In the event you forget or loose your PARENTAL LOCK password, enter 9991

SVCD Operation - Touch Screen Controls

SVCD Transport Control OSD

Using the hidden Touch Screen Controls





Touch AREA E

1) Touch the PLAY button or on the front panel to resume disk playback.

Touch the PAUSE button again to suspend the disc playback.

- Touch the STOP button to STOP playback, touch or OK on the remote to resume playback.
- 3) Touch the REVERSE button to FAST REVERSE on SVCD, 2x, 4x, to 8x
- 4) Touch the FF button to FAST FORWARD on SVCD, 2x, 4x, to 8x.
- 5) Touch the REPEAT botton to scroll through the following:

Repeat Disc, Repeat OFF

- 6) Touch the $\xrightarrow{A \to B}$ to control the following:
 - A) Use the A-B function to define a specific area of disc to repeat. Press the Repeat A-B button to set a start point of the (A) selection.
 - B) Press the A-B button again once you reach the desired end point (B) of the repeated section, the selected portion of the DVD will now repeat continuously.
 - C) Press A-B button once again to cancel the A-B selection and stop repeat playback
- 7) Touch the to change AUDIO settings of SVCD.

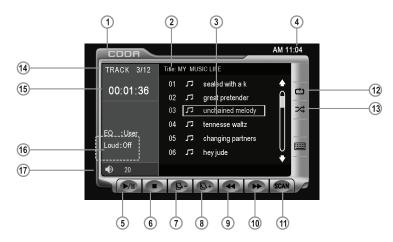
LEFT RIGHT STEREO

Notes:

Some recorded SVCDs may be incompatible with this unit, depending on media type and recording method.

CD Operation

CD USER Interface



- 1) Current source indicator, touch AREA A to access MAIN source menu
- 2) Disc title.
- 3) Track title.
- 4) Current TIME.
- 5) Touch to PLAY / PAUSE disc playback.
- 6) Touch to STOP disc playback.
- 7) Touch to PAGE down.
- 8) Touch to PAGE up.
- 9) Touch to FAST REVERSE current track.
- **10)** Touch to FAST FORWARD current track.
- 11) Touch to SCAN CD tracks for 9sec each track, touch again to deactivate.
- 12) Touch to activate / deactivate REPEAT: Single mode.
- 13) Touch to activate / deactivate RANDOM mode.
- 14) Current track and total number of tracks on the disc.
- 15) Elapsed playback time.
- 16) Playback information.
- 17) Volume indicator.

CD Operation

Playing CDDA files

After inserting a CD disc, files will play in numerical order in the directory.



Selecting by Single Track

Touch to playback track



Selecting by Direct Track Access

Touch to for DIRECT TRACK access

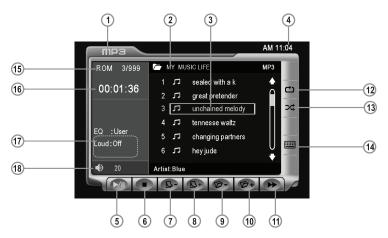


Previous / Next Page

Touch to view UP / DOWN pages of available TRACKS

MP3/WMA Operation

MP3/WMA USER Interface



- 1) Current source indicator, touch AREA A to access MAIN source menu
- 2) Disc title.
- 3) Track title.
- 4) Current TIME.
- 5) Touch to PLAY / PAUSE disc playback.
- 6) Touch to STOP disc playback.
- 7) Touch to PAGE down.
- 8) Touch to PAGE up.
- 9) Touch to PREVIOUS FOLDER.
- 10) Touch to NEXT FOLDER.
- 11) Touch to FAST FORWARD MP3 tracks, touch PLAY to deactivate.
- 12) Touch to activate / deactivate REPEAT: Single mode.
- 13) Touch to activate / deactivate RANDOM mode.
- 14) Touch to access the DIRECT TRACK access keypad.
- 15) Current track and total number of tracks on the disc.
- 16) Elapsed playback time.
- 17) Playback information.
- 18) Volume indicator.

MP3/WMA Operation

Playing MP3/WMA files

After inserting a CD disc, files will play in numerical order in the directory.



Selecting by Single Track

Touch to playback track



Selecting by Direct Track Access

Touch to for DIRECT TRACK access



Previous / Next Page

Touch to view UP / DOWN pages of available TRACKS

Media Compatibility

Additional MP3/WMA Information

An internal buffer provides ESP (Electronic Skip Protection) to virtually eliminate skipping.

When playing a disc recorded with regular audio files (CD-DA or .WAV) and MP3/WMA files, the unit will play the MP3/WMA files only.

Only MP3 files with filename extension (.mp3) can be played. Only WMA files with filename extension (.wma) can be played.

Do not attempt to play discs which contain non-MP3/WMA files with the MP3/WMA extension.

Sampling Frequency Rates

MP3

32kHz ~ 48kHz

WMA

 $32kHz \sim 48kHz$

Transfer Bit rates

MP3

40kbps ~ 320kbps constant

Variable bit rates

WMA

40kbps ~ 192kbps constant

Variable bit rates

Note

Some files may not play or be displayed correctly, depending on sampling rates and bit rates.

Recommended Settings

For best results, use the following settings when burning an MP3 disc: 128kbps or higher constant bit rate 44.1kHz or higher sampling frequency

For best results, use the following settings when burning a WMA disc: 64kbps or higher constant bit rate 44kHz or higher sampling frequency

Media Compatibility

Media Compatibility

The following types of discs/files are compatible:

- CD-ROM (ISO), CD-R, CD-RW, DVD+R/RW, DVD-R/RW
- CD-DA, DVD Video
- MP3 data
- WMA data

The following types of discs/files are not compatible:

- WMA files that are protected by DRM (Digital Rights Management)
- WMA lossless format
- Discs recorded with Track At Once or packet writing
- MP3 PR0 format
- MP3 playlists
- WAV format
- WMV format
- JPG format
- DivX format
- AVI format
- MPG format

Some recordable DVDs and CDs may be incompatible with this unit, depending on media type and recording method.

Playback Order

MP3/WMA playback sequence is based on recorded order of files and begins in the root folder of the disc. Any empty folders or folders that do not include MP3/WMA files are skipped. This unit may not play files in the order they were recorded in. Refer to your recording software's user's manual for more information

Compatible Recording Formats

- IS09660 level 1
- ISO9660 level 2
- Yellow Book MODE 1
- Yellow Book MODE 2 FORM 1
- Multi session
- Maximum files 1500
- Maximum folder levels 8
- MPEG-1/2 Audio Layer-3

IS09660 standards:

- Maximum nested folder depth is 8 (including the root folder).
- Valid characters for folder/file names are letters A-Z (all caps), numbers 0-9, and "_" (underscore). Some characters may not be displayed correctly, depending on the character type.
- This device can play back discs in Joliet and other standards that conform to ISO9660. MP3/WMA written in the formats other than the above may not play and/or their file names or folder names may not be displayed properly.



Troubleshooting

Problem	Cause	Action	
Unit will not turn on (no power)	Yellow wire not connected or incorrect voltage Red wire not connected or incorrect voltage	Check connections for proper voltage (11~16VDC)	
	Black wire not connected	Check connection to ground	
	Fuse blown	Replace fuse	
Unit has power (but no sound)	Speaker wires not connected	Check connections at speakers	
	One or more speaker wires touching each other or touching chassis ground	Insulate all bare speaker wires from each other and chassis ground	
Unit blows fuse	Yellow or red wire touching chassis ground	Check for pinched wire	
	Speaker wires touching chassis ground	Check for pinched wire	
	Incorrect fuse rating	Use fuse with correct rating	
Unit has audio (but no video)	Parking brake safety circuit not connected Parking brake not applied	Check connections at parking brake Apply parking brake	
No video display (when in reverse)	Reverse circuit not connected Vehicle is not in reverse Rear view set to OFF	Check connections at reverse lamp Select reverse gear Set rear view to ON - see page 14 for details	
DVD does not start playback	Physical defect in media Wrong region	Check media for scratches Use discs labeled "Region 1" or "All" only.	
IR remote does not work	Dead battery	Replace battery	
Excessive skipping	Unit is not mounted correctly	Check mounting sleeve	
	Physical defect in media	Check media for scratches	
ERR-DISC appears on display	Focus error or disc is in upside down	Press eject or RESET	
Region code error appears on display	Region code error	Use only DVDs labeled "Region 1" or "All" only.	
Front panel will not open/close	Front panel obstructed	Remove the obstacle and press OPEN again to resume the monitor open/close sequence.	

Limited One Year Warranty

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

Dual Electronics Corp. warrants this product to the original purchaser to be free from defects in material and workmanship for a period of one year from the date of the original purchase.

Dual Electronics Corp. agrees, at our option, during the warranty period, to repair any defect in material or workmanship or to furnish an equal new, renewed or comparable product (whichever is deemed necessary) in exchange without charges, subject to verification of the defect or malfunction and proof of the date of purchase. Subsequent replacement products are warranted for the balance of the original warranty period.

Who is covered? This warranty is extended to the original retail purchaser for products purchased and used in the U.S.A.

What is covered? This warranty covers all defects in material and workmanship in this product. The following are not covered: installation/removal costs, damage resulting from accident, misuse, abuse, neglect, product modification, improper installation, incorrect line voltage, unauthorized repair or failure to follow instructions supplied with the product, or damage occurring during return shipment of the product.

What to do?

- 1. Before you call for service, check the troubleshooting guide in your owner's manual. A slight adjustment of any custom controls may save you a service call.
- If you require service during the warranty period, you must carefully pack the product (preferably in the original package) and ship it by prepaid transportation with a copy of the original receipt from the retailer to an authorized service center.
- Please describe your problem in writing and include your name, a return UPS shipping address (P.O. Box not acceptable), and a daytime phone number with your shipment.
- 4. For more information and for the location of the nearest authorized service center please contact us by one of the following methods:
 - Call us toll-free at 1-866-382-5476
 - E-mail us at cs@dualav.com

Exclusion of Certain Damages: This warranty is exclusive and in lieu of any and all other warranties, expressed or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose and any obligation, liability, right, claim or remedy in contract or tort, whether or not arising from the company's negligence, actual or imputed. No person or representative is authorized to assume for the company any other liability in connection with the sale of this product. In no event shall the company be liable for indirect, incidental or consequential damages.

NOTES

Specifications

DVD Player Frequency response: 10Hz-20kHz

Channel separation @ 1kHz: >65dB

D/A converter: 24 Bit

FM Tuner Tuning range: 87.5MHz-107.9MHz

Usable sensitivity: 8.5dBf

50dB quieting sensitivity: 10dBf Stereo separation @ 1kHz: 40dB Frequency response: 30Hz-13kHz

AM Tuner Tuning range: 530kHz-1720kHz

Usable sensitivity: 22uV

Frequency response: 30Hz-2.2kHz

Monitor Panel size: 7" (177.8 mm) diagonal measurement

View angle (up/down/left/right): 30/60/60/60

Resolution: **480 W x 234 H**Brightness (cd/m²): **350**Contrast ratio: **300:1**Elements: **336,960**

General Operating voltage: 11-16 VDC, negative ground

Speaker output impedance: 4~8 ohms

Line output voltage: 2 Volts

Line output impedance: 200 ohms Chassis dimensions: 7" x 7" x 2"

(178 x 178 x 51 mm)

Design and specifications subject to change without notice.



CEA-2006 Power Standard Specifications (reference: 14.4VDC +/- 0.2V, 20Hz~20kHz)

Power Output: 17 Watts RMS x 4 channels at 4 ohms and \leq 1% THD+N Signal to Noise Ratio: 80dBA (reference: 1 watt into 4 ohms)



XDVD8181

INSTALLATION/OWNER'S MANUAL

DVD Multimedia Receiver with 7" Touch Screen Display















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